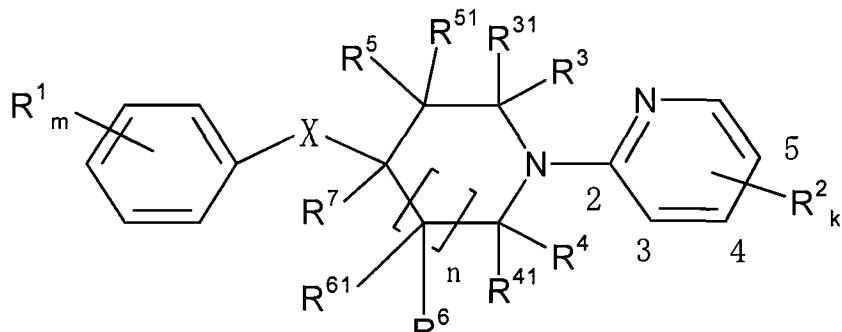


**AMENDMENTS TO THE CLAIMS**

The following listing of claims replaces all prior versions, and listings, of claims in this application.

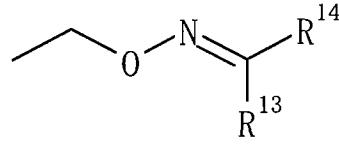
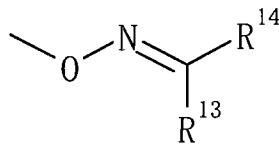
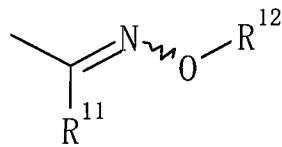
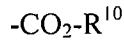
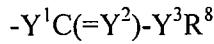
Claim 1 (currently amended): A chemical compound represented by the formula [I]:



[ I ]

wherein R<sup>1</sup> represents a hydroxyl group, a halogen atom, a cyano group, a nitro group, a formyl group, a C<sub>1-6</sub> alkyl group which may be substituted by G<sup>1</sup>, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>1-6</sub> haloalkyl group, a C<sub>1-6</sub> haloalkenyl group, a C<sub>1-6</sub> alkylcarbonyl group, a C<sub>1-6</sub> alkoxy group which may be substituted by G<sup>2</sup>, a C<sub>1-6</sub> haloalkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> haloalkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>1-6</sub> alkylcarbonyloxy group, a C<sub>1-6</sub> alkoxy carbonyloxy group, a C<sub>1-6</sub> alkylthiocarbonyloxy group, an amino group which may be substituted by G<sup>3</sup>, a C<sub>1-6</sub> alkylthio group, a C<sub>1-6</sub> haloalkylthio group, a C<sub>1-6</sub> alkylsulfinyl group, a C<sub>1-6</sub> haloalkylsulfinyl group, a C<sub>1-6</sub> alkylsulfonyl group, a C<sub>1-6</sub> haloalkylsulfonyl group, a C<sub>1-6</sub> alkylsulfonyloxy group, a C<sub>1-6</sub> haloalkylsulfonyloxy group, a ~~five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom~~, a ~~dioxolanyl group~~ which may be substituted by G<sup>4</sup>, a ~~tetrahydrofuranyl group which may be substituted by G<sup>4</sup>~~, a ~~dihydrofuranyl group~~, an ~~oxadiazoyl group which may be substituted by G<sup>4</sup>~~, an

oxazolizinyl group which may be substituted by G<sup>4</sup>, an oxadiazolyl group which may be substituted by G<sup>4</sup>, an oxazolyl group which may be substituted by G<sup>4</sup>, or any one of substituents represented by the following formula:



wherein R<sup>8</sup> and R<sup>9</sup> each independently represents a C<sub>1-6</sub> alkyl group, Y<sup>1</sup>, Y<sup>2</sup>, and Y<sup>3</sup> each independently represents an oxygen atom or a sulfur atom, A represents a ~~five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom and a nitrogen atom, a tetrahydrofuranyl group which may be substituted by G<sup>4</sup>~~, R<sup>10</sup> represents a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>1-6</sub> alkyl C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> haloalkyl group, or a ~~five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom, a tetrahydrofuran group which may be substituted by G<sup>4</sup>~~, R<sup>11</sup> and R<sup>12</sup> each independently represents a hydrogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, or a C<sub>2-6</sub> alkynyl group, R<sup>13</sup> and R<sup>14</sup> each independently represents a C<sub>1-6</sub> alkyl group, and R<sup>13</sup> and R<sup>14</sup> may be bound together to form a ring, m represents 0 or an integer of 1 to 5,

R<sup>2</sup> represents a halogen atom, a nitro group, a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> haloalkyl group, a ~~five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom, which may be substituted by G<sup>4</sup>, a pyrazolyl group, or a C<sub>1-6</sub> haloalkoxy group, k represents 0 or an integer of 1 to 4,~~

R<sup>3</sup>, R<sup>31</sup>, R<sup>4</sup>, R<sup>41</sup>, R<sup>5</sup>, R<sup>51</sup>, R<sup>6</sup>, R<sup>61</sup>, and R<sup>7</sup> each independently represents a hydrogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy carbonyl group, or a C<sub>1-6</sub> alkoxy group, and both R<sup>3</sup> and R<sup>4</sup>, or both

R<sup>5</sup> and R<sup>6</sup>, may be bound together to form a saturated ring, an azabicyclooctane core or an azabicyclononane core,

X represents an oxygen atom, a sulfur atom, a sulfinyl group, or a sulfonyl group,  
G<sup>1</sup> represents a hydroxyl group, a C<sub>1-6</sub> alkoxycarbonyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkoxy C<sub>1-6</sub> alkoxy group, a ~~five or six membered heterocyclic group having at least one hetero atom selected from an oxygen atom, a nitrogen atom, and a sulfur atom which may be substituted by G<sup>4</sup>~~, or a C<sub>3-6</sub> cycloalkyl group,

G<sup>2</sup> represents a hydroxyl group, a cyano group, an amino group which may be substituted by G<sup>4</sup>, a C<sub>1-6</sub> alkoxycarbonyl group, a C<sub>1-6</sub> alkylthio group, a C<sub>1-6</sub> alkylsulfonyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkoxy C<sub>1-6</sub> alkoxy group, C<sub>3-6</sub> cycloalkyl group, or a C<sub>6-10</sub> aryl group which may be substituted by a halogen atom or a C<sub>1-6</sub> alkyl group,

G<sup>3</sup> represents a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkylcarbonyl group, or a C<sub>1-6</sub> alkylsulfonyl group,

G<sup>4</sup> represents a C<sub>1-6</sub> alkyl group, or a C<sub>1-6</sub> alkoxy group, and

n represents [[0 or]] 1,

or a salt or an N-oxide of the chemical compound represented by formula (I).

**Claim 2 (previously presented):** A chemical compound according to claim 1, wherein k is at least 1, and an R<sup>2</sup> substituent is at the five position on the pyridine ring.

**Claim 3 (previously presented):** A chemical compound according to claim 1, wherein m is at least 1, and an R<sup>1</sup> substituent is at the two position on the benzene ring.

**Claim 4-6 (canceled).**

**Claim 7 (previously presented):** A chemical compound according to claim 2, wherein m is at least 1, and an R<sup>1</sup> substituent is at the two position on the benzene ring.

**Claim 8-13 (canceled).**

**Claim 14 (new):** A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

**Claim 15 (new):** A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

**Claim 16 (new):** A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

**Claim 17 (new):** A method of controlling insects in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.

**Claim 18 (new):** A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

**Claim 19 (new):** A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

**Claim 20 (new):** A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

**Claim 21 (new):** A method of controlling mites in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.

**Claim 22 (new):** A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 1.

**Claim 23 (new):** A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 2.

**Claim 24 (new):** A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 3.

**Claim 25 (new):** A method of controlling nematodes in a plant, soil, or animal, comprising the step of administering to the plant, soil, or animal a composition comprising the chemical compound of claim 7.